



200 West Mercer St. ♦ Suite 401 ♦ Seattle, WA 98119
Phone: 206.378.1364 ♦ Fax: 206.217.0089 ♦ www.windwardenv.com

June 8, 2016

de maximis, inc.
Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Dear Willard,
Please find our invoice #0516 for Professional Time Rendered from May 1, 2016 to May 31, 2016 for The Passaic RI/FS project.

Task	Amount
Task 26 CPG Strategic Support	2,294.84
Task 49 Subcontractor Oversight	784.86
Task 50.2 BERA cmt rsp mgts	6,488.98
Task 51 BERA RTC	556.20
Task 54 Revised SLERA	9,331.03
Task 55 BERA Toxicity Evaluation	1,854.00
Task 56 Revised BERA	132,282.65
Task 57 Response to EPA RI Comments	15,104.95
	<u>\$ 168,697.51</u>



200 West Mercer Street
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Task 26 CPG Strategic Support

Invoice Date: 5/31/2016

Invoice Number: 14313

Bill To

de maximis, inc.
Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Lisa Saban	11	180.00	1,980.00
Chris Nelson	2	124.00	248.00
Subtotal			2,228.00
Markup 3%		3.00%	66.84
Total Labor			2,294.84
Total			\$2,294.84



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Task 49 Subcontractor Oversight

Invoice Date: 5/31/2016

Invoice Number: 14314

Bill To

de maximis, inc.
Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Kate McPeck	0.25	169.00	42.25
Susan McGroddy	2	180.00	360.00
Jennifer Parker	0.75	169.00	126.75
Lisa Saban	0.5	180.00	90.00
Kim Goffman	1	143.00	143.00
Subtotal			762.00
Markup 3%		3.00%	22.86
Total Labor			784.86
Total			\$784.86



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Task 50.2 BERA cmt rsp mgts

Invoice Date: 5/31/2016

Invoice Number: 14315

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Shana Schorsch	0.5	124.00	62.00
Lisa Saban	14	180.00	2,520.00
John Toll	13	180.00	2,340.00
Mike Johns	7	192.00	1,344.00
Subtotal			6,266.00
Markup 3%		3.00%	187.98
Total Labor			6,453.98
 COSTS			
Travel (Lisa5/10/2016)		35.00	35.00

Total

\$6,488.98

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Task 51 BERA RTC

Invoice Date: 5/31/2016

Invoice Number: 14316

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Lisa Saban	3	180.00	540.00
Markup 3%		3.00%	16.20
Total Labor			556.20
Total			\$556.20



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Task 54 Revised SLERA

Invoice Date: 5/31/2016

Invoice Number: 14317

Bill To

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Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Nate Lewis	7	143.00	1,001.00
Shannon Katka	12.25	169.00	2,070.25
Lisa Saban	11	180.00	1,980.00
Shana Schorsch	21.75	124.00	2,697.00
Kim Goffman	7	143.00	1,001.00
Nina Maas	2.5	124.00	310.00
Subtotal			9,059.25
Markup 3%		3.00%	271.78
Total Labor			9,331.03
Total			\$9,331.03



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Task 55 BERA Toxicity Evaluation

Invoice Date: 5/31/2016

Invoice Number: 14318

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Lisa Saban	10	180.00	1,800.00
Markup 3%		3.00%	54.00
Total Labor			1,854.00
Total			\$1,854.00



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Task 56 Revised BERA

Invoice Date: 5/31/2016

Invoice Number: 14319

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Nina Maas	77.75	124.00	9,641.00
Jenna Rheuben	135.25	124.00	16,771.00
Kim Goffman	57	143.00	8,151.00
Matt Luxon	97	169.00	16,393.00
Linda Marsh	48.75	101.00	4,923.75
Shana Schorsch	25.75	124.00	3,193.00
Mike Johns	27	192.00	5,184.00
Shannon Katka	32.25	169.00	5,450.25
Adam Ryan	36.5	169.00	6,168.50
Jennifer Parker	93	169.00	15,717.00
Berit Bergquist	56.5	169.00	9,548.50
Siobhan Sloan-Evans	64.25	124.00	7,967.00
Karen Tobiason	33.5	169.00	5,661.50
Brian Church	24.75	124.00	3,069.00
Lisa Saban	39.5	180.00	7,110.00
David DeForest	6	169.00	1,014.00
Rocky Wells	13.25	124.00	1,643.00
Suzanne Replinger	4.25	169.00	718.25
Subtotal			128,323.75
Markup 3%		3.00%	3,849.71
Total Labor			132,173.46

Total



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Task 56 Revised BERA

Invoice Date: 5/31/2016

Invoice Number: 14319

Bill To

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Willard Potter
186 Center Street Suite 290
Clinton, New Jersey 08809

Description	Units	Rate	Amount
COSTS			
Supplies (UWInvoice#LIB006422)		65.76	65.76
Supplies (BOA5/15/2016)		43.43	43.43
Total Costs			109.19
Total			\$132,282.65



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Task 57 Response to EPA RI Comments

Invoice Date: 5/31/2016

Invoice Number: 14320

Bill To

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Description	Units	Rate	Amount
LABOR from May 1, 2016 to May 31, 2016			
Nate Lewis	13.5	143.00	1,930.50
John Toll	9	180.00	1,620.00
Lisa Saban	12.5	180.00	2,250.00
Mike Johns	10	192.00	1,920.00
Brian Church	29.75	124.00	3,689.00
Suzanne Replinger	6	169.00	1,014.00
Nina Maas	14.75	124.00	1,829.00
Kim Goffman	0.5	143.00	71.50
Jenna Rheuben	2.75	124.00	341.00
Subtotal			14,665.00
Markup 3%		3.00%	439.95
Total Labor			15,104.95
Total			\$15,104.95

Passaic Labor Report

Task 26 CPG Strategic Support

Chris Nelson

Date	Hours	Rate	Extended	Notes
5/10/2016	1.00	124.00	\$124.00	Assisting Lisa with budgets
5/11/2016	1.00	124.00	\$124.00	Assisting Lisa with budgets
Summary for Chris Nelson				
	2.00		\$248.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/3/2016	4.00	180.00	\$720.00	time and budget review and cmt and follow up
5/11/2016	4.00	180.00	\$720.00	sow development
5/19/2016	2.00	180.00	\$360.00	review time and budgets
5/23/2016	1.00	180.00	\$180.00	review time
Summary for Lisa Saban				
	11.00		\$1,980.00	

Summary for Task 26 CPG Strategic Support
13.00 \$2,228.00

Task 49 Subcontractor Oversight

Jennifer Parker

Date	Hours	Rate	Extended	Notes
5/17/2016	0.75	169.00	\$126.75	Coordinating with data manager and senior chemist regarding carp exchange disposal calculations.
Summary for Jennifer Parker				
	0.75		\$126.75	

Kate McPeck

Date	Hours	Rate	Extended	Notes
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5/17/2016	0.25	169.00	\$42.25	communications with Susie and Jenn regarding fish disposal
Summary for Kate McPeck				
	0.25		\$42.25	

Kim Goffman

Date	Hours	Rate	Extended	Notes
5/17/2016	1.00	143.00	\$143.00	Prepare summary stats of existing tissue for fish disposal evaluation.
Summary for Kim Goffman				
	1.00		\$143.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/17/2016	0.50	180.00	\$90.00	go over tissue request from bill with susie.
Summary for Lisa Saban				
	0.50		\$90.00	

Susan McGroddy

Date	Hours	Rate	Extended	Notes
5/17/2016	1.50	180.00	\$270.00	Revise disposal characterization for fish exchange disposal
5/18/2016	0.50	180.00	\$90.00	Review final characterization on fish exchange disposal
Summary for Susan McGroddy				
	2.00		\$360.00	
Summary for Task 49 Subcontractor Oversight				
	4.50		\$762.00	

Task 50.2 BERA cmt rsp mgts

John Toll

Date	Hours	Rate	Extended	Notes
5/2/2016	2.00	180.00	\$360.00	Attended TC pre-meeting to go over RI comments and plans for discussing with TC this week
5/3/2016	2.00	180.00	\$360.00	Responding to TC meeting preparation requests from AQ
5/4/2016	6.50	180.00	\$1,170.00	Attended TC and responded to questions from other consulting team members
5/19/2016	2.50	180.00	\$450.00	TC call and benthic biomass estimate, went over TRV presentation w/ Lisa and Matt
Summary for John Toll				
	13.00		\$2,340.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/2/2016	2.00	180.00	\$360.00	prep for tc mgt
5/4/2016	8.00	180.00	\$1,440.00	prepare for, attend, follow up of TC mgt.
5/24/2016	3.00	180.00	\$540.00	prepare for and call with TC regarding fish tissue metals trvs; follow up with Tal.
5/31/2016	1.00	180.00	\$180.00	start prepping materials for TC meeting.
Summary for Lisa Saban				
	14.00		\$2,520.00	

Mike Johns

Date	Hours	Rate	Extended	Notes
5/4/2016	6.00	192.00	\$1,152.00	Attend TC call
5/24/2016	1.00	192.00	\$192.00	Attend call on metals TRVs
Summary for Mike Johns				
	7.00		\$1,344.00	

Shana Schorsch

Date	Hours	Rate	Extended	Notes
5/2/2016	0.50	124.00	\$62.00	Fish & invertebrate TRVs PPT review
Summary for Shana Schorsch				
	0.50		\$62.00	
Summary for Task 50.2 BERA cmt rsp mgts				
	34.50		\$6,266.00	

Task 51 BERA RTC**Lisa Saban**

Date	Hours	Rate	Extended	Notes
5/10/2016	2.00	180.00	\$360.00	checking rtc responses on SLERA with revisions.
5/17/2016	1.00	180.00	\$180.00	discuss pah response.
Summary for Lisa Saban				
	3.00		\$540.00	
Summary for Task 51 BERA RTC				
	3.00		\$540.00	

Task 54 Revised SLERA

Kim Goffman

Date	Hours	Rate	Extended	Notes
5/11/2016	4.00	143.00	\$572.00	Revise list of TSV sources for SLERA sediment; update screen and appendix tables.
5/12/2016	2.00	143.00	\$286.00	Apply add'l TSV revisions for SLERA sediment; update screen and appendix tables.
5/18/2016	1.00	143.00	\$143.00	Update SLERA diet EPC tables for Attachment A2.
Summary for Kim Goffman				
	7.00		\$1,001.00	

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/10/2016	4.00	180.00	\$720.00	reviewing revised SLERA.
5/17/2016	1.00	180.00	\$180.00	slera questions from shana
5/20/2016	2.00	180.00	\$360.00	reviewing changes to SLERA.
5/23/2016	1.00	180.00	\$180.00	finalizing questions on slera prior to submittal to CPG
5/27/2016	1.00	180.00	\$180.00	SLERA final review details
5/31/2016	2.00	180.00	\$360.00	work with Kim and Shannon on doing the new SLERA work that came out of RI comment
Summary for Lisa Saban				
	11.00		\$1,980.00	

Nate Lewis

Date	Hours	Rate	Extended	Notes
5/3/2016	1.00	143.00	\$143.00	Formatting compiled SLERA criteria
5/4/2016	5.00	143.00	\$715.00	Formatting compiled SLERA criteria
5/5/2016	0.50	143.00	\$71.50	Formatting compiled SLERA criteria
5/23/2016	0.50	143.00	\$71.50	Updating SLERA references
Summary for Nate Lewis				
	7.00		\$1,001.00	

Nina Maas

Date	Hours	Rate	Extended	Notes
5/18/2016	2.50	124.00	\$310.00	QC TSV tables

Summary for Nina Maas

2.50

\$310.00

Shana Schorsch

Date	Hours	Rate	Extended	Notes
5/11/2016	5.00	124.00	\$620.00	BERA Appendix A SLERA
5/16/2016	8.75	124.00	\$1,085.00	LPRSA BERA App A SLERA
5/17/2016	2.50	124.00	\$310.00	LPRSA BERA App A SLERA
5/19/2016	2.50	124.00	\$310.00	LPRSA BERA App A SLERA
5/23/2016	2.25	124.00	\$279.00	Revisions to LSERA
5/25/2016	0.75	124.00	\$93.00	SLERA RTC proofread
Summary for Shana Schorsch	21.75		\$2,697.00	

Shannon Katka

Date	Hours	Rate	Extended	Notes
5/10/2016	0.50	169.00	\$84.50	work with Kim on finalizing revised sediment screen with new thresholds
5/11/2016	5.25	169.00	\$887.25	incorporate revised sediment screen results into SLERA based on comparison to lowest sediment threshold per EPA comments - add summary text and tables; work on summary table for text documenting lowest values and references
5/12/2016	2.75	169.00	\$464.75	complete incorporating revised sediment screen results into SLERA based on comparison to lowest sediment threshold per EPA comments - add summary text and tables
5/16/2016	1.75	169.00	\$295.75	revise Section 5 (SLERA summary) of BERA to reflect current SLERA edits and results
5/17/2016	0.50	169.00	\$84.50	update SLERA based on full DLs rather than 1/2 DLs for consistency with BERA assumptions
5/23/2016	0.75	169.00	\$126.75	work on edits and QC checks per editorial review of SLERA
5/25/2016	0.50	169.00	\$84.50	work on edits and QC checks per editorial review of SLERA; address sediment TRV question from Rob regarding comparability of FFS to revised SLERA
5/26/2016	0.25	169.00	\$42.25	address sediment TRV question from Rob regarding comparability of FFS to revised SLERA
Summary for Shannon Katka	12.25		\$2,070.25	

Summary for Task 54 Revised SLERA

61.50

\$9,059.25

Task 55 BERA Toxicity Evaluation

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/11/2016	1.00	180.00	\$180.00	BERA section 7 trv review
5/12/2016	5.00	180.00	\$900.00	BERA section 7 trvs
5/19/2016	2.00	180.00	\$360.00	go over metals discussion and issues with Matt
5/27/2016	2.00	180.00	\$360.00	matt's trvs questions.
Summary for Lisa Saban				
	10.00		\$1,800.00	

Summary for Task 55 BERA Toxicity Evaluation

10.00 \$1,800.00

Task 56 Revised BERA

Adam Ryan

Date	Hours	Rate	Extended	Notes
5/3/2016	4.00	169.00	\$676.00	Prepare tables for metals TRVs, discussion with David regarding silver TRVs
5/5/2016	2.50	169.00	\$422.50	Update tables for metals TRVs; discussion with Siobhan regarding acute metal TRVs
5/6/2016	3.00	169.00	\$507.00	Update tables with acute and chronic metal TRVs (BLM-based and hardness-based)
5/11/2016	1.00	169.00	\$169.00	Review notes on BLM application; write-up of BLM application
5/16/2016	6.50	169.00	\$1,098.50	Write-up BLM sections (Cu and Zn) for Appendix D
5/18/2016	4.00	169.00	\$676.00	Review Appendix D, modify text, update TRV table and ranges for Cu, Zn, and Pb
5/24/2016	2.50	169.00	\$422.50	Update BLM-based TRVs for report, using complete dataset; contribute supporting text for BLM sections (summaries and uncertainty)
5/25/2016	4.00	169.00	\$676.00	Continue updating BLM-based TRVs for report, using complete dataset; contribute supporting text for BLM sections (summaries and risk characterization)
5/26/2016	2.00	169.00	\$338.00	Contribute supporting text for BLM sections (risk characterization and uncertainty)
5/27/2016	5.50	169.00	\$929.50	Contribute supporting text for BLM sections (risk characterization and uncertainty)
5/31/2016	1.50	169.00	\$253.50	Discussion with Matt regarding protectiveness of saltwater Cu BLM-based TRV for fish; review of SSD and important life stages and life history of Summer Flounder
Summary for Adam Ryan				
	36.50		\$6,168.50	

Berit Bergquist

Date	Hours	Rate	Extended	Notes
5/3/2016	0.50	169.00	\$84.50	look into great blue heron crab consumption
5/4/2016	3.00	169.00	\$507.00	Wildlife TRV development for new COPECs
5/5/2016	1.25	169.00	\$211.25	work with Nina on developing wildlife TRVs for new COPECs
5/6/2016	1.50	169.00	\$253.50	review studies for COPECs with potential dose response curves
5/9/2016	2.75	169.00	\$464.75	work on wildlife TRV refinement approach for BERA based on revised SLERA
5/10/2016	2.00	169.00	\$338.00	confirm approach, DDx SSD for birds
5/11/2016	3.00	169.00	\$507.00	Total DDx SSD; review data, compile, and calculate SSDs
5/12/2016	4.00	169.00	\$676.00	review all comments for Section 8; go over calculations with Jenn; work on plan for tables consistent with mammal section
5/13/2016	0.50	169.00	\$84.50	start reviewing EPA's comments on bird egg section
5/17/2016	6.00	169.00	\$1,014.00	revised EPC tables for bird section; work on re-organization of bird section
5/18/2016	4.00	169.00	\$676.00	Work on revised tables for bird section; evaluated revised HQ results
5/24/2016	5.00	169.00	\$845.00	work on TRV tables and HQ tables for bird section
5/25/2016	6.50	169.00	\$1,098.50	continue working on TRV tables, HQ tables, uncertainty tables
5/26/2016	7.00	169.00	\$1,183.00	continue working on tables and associated text for Section 8
5/27/2016	8.00	169.00	\$1,352.00	work on text for effects section in Section 8; work on summary table for Section 8
5/31/2016	1.50	169.00	\$253.50	meet with team to discuss BERA status and follow up
Summary for Berit Bergquist				
	56.50		\$9,548.50	

Brian Church

Date	Hours	Rate	Extended	Notes
5/6/2016	2.50	124.00	\$310.00	Revising RTC and developing surface water SSD figures
5/16/2016	3.25	124.00	\$403.00	1.75 h - Discussing current state of BERA and action items, 1 h - updating BERA (Appendix X), 0.5 - tracking down articles for Matt
5/17/2016	1.75	124.00	\$217.00	1 h - Reviewing 34 PAH data for BERA Appx X, creating plots; 0.5 h - reviewing and commenting on map revisions for benthic sections; 0.25 - coordinating with Karen on Section 6 language
5/18/2016	6.00	124.00	\$744.00	Carp tissue disposal task; upstream fish tissue screen; addressing comments/qc from Karen on Appendix X; updating text in Appendix D related to BLM-based TRVs; reviewing benthic maps

5/19/2016	0.50	124.00	\$62.00	providing upstream fish tissue outlier data to Kim
5/20/2016	1.00	124.00	\$124.00	Revising old surface water SSDs and creating new SSD figures
5/23/2016	0.75	124.00	\$93.00	Discussing changes to Section 6/Appx with Karen
5/25/2016	1.00	124.00	\$124.00	Internal discussion of Section 6 revisions
5/26/2016	1.75	124.00	\$217.00	1.5 h - Results from 34-PAH analysis; 0.5 h - checking surface water figures for Siobhan
5/31/2016	6.25	124.00	\$775.00	1.25 h - Getting direction from group on benthic section edits; 5 h - Updating Appendix X
Summary for Brian Church				
	24.75		\$3,069.00	

David DeForest

Date	Hours	Rate	Extended	Notes
5/11/2016	0.50	169.00	\$84.50	Review of surface water TRV methods text
5/18/2016	1.00	169.00	\$169.00	Discussion and review of Pb TRV text by Brian; email communications with Adam on text
5/25/2016	2.00	169.00	\$338.00	Review of tissue TRVs and risk characterization for metals
5/26/2016	2.00	169.00	\$338.00	Text on conservatism of FW and SW Pb TRVs for fish; review of tissue TRVs and risk characterization for metals
5/27/2016	0.50	169.00	\$84.50	Additional text on conservatism of FW and SW Pb TRVs for fish
Summary for David DeForest				
	6.00		\$1,014.00	

Jenna Rheuben

Date	Hours	Rate	Extended	Notes
5/2/2016	9.50	124.00	\$1,178.00	Invertebrate tissue assessment: Finish SSD figures for As, Cd, Cu, Zn, total DDx, total PCBs. Write ups for SSD figures, TCDD, dieldrin, and endosulfan I, complete Zn nutritional piece.
5/3/2016	9.00	124.00	\$1,116.00	Fish tissue assessment: finish SSD figures for Cd, Cu. Update SSD figures for methyl mercury, total PCBs, total DDx, total TEQ, to reflect style, complete Zn nutritional piece.
5/4/2016	8.25	124.00	\$1,023.00	Fish dietary assessment: fish diet calculations.
5/5/2016	8.00	124.00	\$992.00	Fish dietary assessment: update section 7.2 text and tables.
5/6/2016	4.50	124.00	\$558.00	Fish dietary assessment: update section 7.2 text and tables (based on NOAEL extrapolated values). Run through dietary calculations QC task with Nina.
5/9/2016	8.50	124.00	\$1,054.00	Fish diet assessment: review fish diet calculation QC and revise. Update in-text HQ tables/figures, and write up HQs/summary section.
5/10/2016	8.25	124.00	\$1,023.00	Fish/invert tissue assessment: update EPC/TRVs and intext tables, add control copper tissue concentrations to fish tissue SSD.

5/11/2016	7.75	124.00	\$961.00	Fish/invert tissue assessment: update in-text HQ summary tables (Invert/Fish LOAEL/NOAEL HQs), update HQ summary text, create bird diet SSD for total DDx.
5/12/2016	8.00	124.00	\$992.00	Fish/invert tissue assessment: Final revisions to fish/invert tissue sections.
5/13/2016	8.00	124.00	\$992.00	Fish/invert tissue assessment: Final revisions to fish/invert tissue sections. Update fish tissue uncertainty analysis tables.
5/16/2016	1.00	124.00	\$124.00	Meet to discuss working draft/updates.
5/18/2016	7.25	124.00	\$899.00	Derive invertebrate specific zinc TRVs and in-text write up, correct presentation SSD figures.
5/19/2016	8.00	124.00	\$992.00	Prepare Section 6 table QC, create Table 7-11 (background concentrations vs LPRSA EPCs).
5/20/2016	7.50	124.00	\$930.00	Fish egg SSD, Review Bugel et al. for addition to fish egg effects section, continue working on section 7.
5/23/2016	8.00	124.00	\$992.00	Create Section 7 COC/HQ summary table, correct all in-text citations of table numbers, update Bugel text.
5/24/2016	10.00	124.00	\$1,240.00	QC Appendix E, Attachment E1 and E2. with text/excel files, bird egg TEQ SSDs
5/25/2016	8.00	124.00	\$992.00	QC Appendix E, Attachment E1 and E2. with text/excel files, review section 6 and EPA comments
5/26/2016	5.75	124.00	\$713.00	Review/revise section 6 and EPA comments
Summary for Jenna Rheuben				
	135.25		\$16,771.00	

Jennifer Parker

Date	Hours	Rate	Extended	Notes
5/3/2016	6.00	169.00	\$1,014.00	Continued working on BERA calculations.
5/4/2016	6.00	169.00	\$1,014.00	Continued working on BERA calculations.
5/5/2016	2.00	169.00	\$338.00	Continued working on BERA calculations.
5/6/2016	2.00	169.00	\$338.00	Continued working on BERA calculations.
5/9/2016	3.00	169.00	\$507.00	Continued to work on BERA revisions and calculations.
5/10/2016	7.00	169.00	\$1,183.00	Continued to work on BERA tables and revisions.
5/11/2016	1.50	169.00	\$253.50	Continued to work on BERA tables.
5/12/2016	2.00	169.00	\$338.00	Continued to work on BERA revisions.
5/13/2016	4.00	169.00	\$676.00	Continued to work on BERA revisions.
5/16/2016	2.50	169.00	\$422.50	Continued working on BERA.
5/17/2016	3.00	169.00	\$507.00	Coordinated with data manager regarding background data for BERA. Continued to work on BERA tables and revisions.
5/18/2016	4.00	169.00	\$676.00	Continued working on BERA tables and calculations.
5/19/2016	2.50	169.00	\$422.50	Continued working on writing the BERA.
5/20/2016	5.00	169.00	\$845.00	Continued working on writing the BERA and coordinated with data manager and coordinated with Linda on QC and Rocky on table formats.
5/23/2016	8.00	169.00	\$1,352.00	Continued working on BERA revisions.

5/24/2016	6.50	169.00	\$1,098.50	Continued working on BERA revisions.
5/25/2016	7.00	169.00	\$1,183.00	Continued working on BERA revisions.
5/26/2016	7.00	169.00	\$1,183.00	Continued working on BERA revisions.
5/27/2016	7.00	169.00	\$1,183.00	Continued working on BERA revisions.
5/31/2016	7.00	169.00	\$1,183.00	Continued working on revised BERA.

Summary for Jennifer Parker
93.00

\$15,717.00

Karen Tobiason

Date	Hours	Rate	Extended	Notes
5/5/2016	3.50	169.00	\$591.50	Review edits to Section 6.
5/16/2016	3.50	169.00	\$591.50	Work on updates to BERA, meet with team.
5/17/2016	3.50	169.00	\$591.50	Review section 4, update references for revised data reports, revise footnotes.
5/18/2016	5.50	169.00	\$929.50	Continue reviewing SQT line of evidence appendix, work on benthic community updates, QC tables.
5/20/2016	2.50	169.00	\$422.50	Continue to review SQT LOE appendix, work on toxicity LOE section.
5/23/2016	3.50	169.00	\$591.50	Review and edit Section 6.1, discuss approach with Brian
5/25/2016	4.50	169.00	\$760.50	Continue to review the SQT section of Section 6, working on organization and QC.
5/26/2016	2.50	169.00	\$422.50	Review and edits toxicity test section of Appendix X.
5/27/2016	2.00	169.00	\$338.00	QC weight of evidence tables.
5/31/2016	2.50	169.00	\$422.50	Work on revising benthic BERA, work on structure
Summary for Karen Tobiason	33.50		\$5,661.50	

Kim Goffman

Date	Hours	Rate	Extended	Notes
5/2/2016	4.00	143.00	\$572.00	Prepare BERA screen for fish and invertebrate tissue using new TRVs.
5/4/2016	4.00	143.00	\$572.00	Prepare add'l ProUCL datasets and generate EPCs for BERA mammal diet uncertainty analysis.
5/6/2016	3.00	143.00	\$429.00	Update TSVs for BERA COPECs (sediment).
5/9/2016	5.00	143.00	\$715.00	Incorporate TRV revisions for fish/invert tissue. Update screen and associated appendix tables.
5/10/2016	3.00	143.00	\$429.00	Update EPC datasets to include alternate tissue types. Add new TRVs for fish; update screen and assoc. appendix tables.
5/11/2016	2.00	143.00	\$286.00	Add new TRVs for invertebrates; update screen and assoc. appendix tables.
5/16/2016	3.00	143.00	\$429.00	Import BERA TRVs for water, plants, amphibians. Identify datasets and approach for benthic 34 PAH sum calculation.

5/17/2016	6.00	143.00	\$858.00	Update and screen fish/inverts based on revised TRVs. Start comparison of upstream/estuarine tissue to BERA tissue.
5/18/2016	7.00	143.00	\$1,001.00	Screen and prepare tables for surface water LOE (amphibians, plants, fish, inverts). Export background tissue dataset for outlier analysis.
5/19/2016	6.00	143.00	\$858.00	Continue work on comparison of upstream/estuarine tissue to BERA tissue. Incorporate new invert TRVs into BERA tissue screen; update associated tables.
5/20/2016	2.00	143.00	\$286.00	Prepare regional dataset for KM TEQ calculations.
5/23/2016	4.00	143.00	\$572.00	Prepare background/reference summary for updated LPR/upstream/regional tissue COCs.
5/24/2016	1.00	143.00	\$143.00	Update background/reference summary with add'l receptor groups.
5/26/2016	3.00	143.00	\$429.00	Update BERA appendices with new regional tissue datasets.
5/31/2016	4.00	143.00	\$572.00	Continue review of data rule uncertainty (replicate avg, preferred method selection) for BERA text addition. Add addl chemistry data to background tissue summary.
Summary for Kim Goffman		57.00	\$8,151.00	

Linda Marsh

Date	Hours	Rate	Extended	Notes
5/2/2016	4.00	101.00	\$404.00	Worked on BERA map updates.
5/5/2016	7.00	101.00	\$707.00	Worked on BERA map updates.
5/11/2016	1.00	101.00	\$101.00	Continued revising benthic maps.
5/12/2016	3.00	101.00	\$303.00	Finished revising benthic maps with directed results.
5/13/2016	1.50	101.00	\$151.50	Formatted section 9 tables for Jennifer.
5/17/2016	2.50	101.00	\$252.50	mudflat map labels
5/18/2016	7.00	101.00	\$707.00	Revised benthic maps and mudflat table and formatted mammal dose tables.
5/19/2016	7.25	101.00	\$732.25	QCd section 9 tables.
5/20/2016	7.50	101.00	\$757.50	QCd section 9 tables.
5/23/2016	8.00	101.00	\$808.00	Finished QC of Tables 9-14 and 9-15.
Summary for Linda Marsh		48.75	\$4,923.75	

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/6/2016	3.00	180.00	\$540.00	BERA: giving direction and answering questions; reviewing.
5/9/2016	4.00	180.00	\$720.00	working on BERA questions and staff direction.
5/13/2016	3.50	180.00	\$630.00	BERA section 7 and section 8.
5/16/2016	2.00	180.00	\$360.00	meet and go over progress on bera

5/17/2016	3.00	180.00	\$540.00	bera progress with staff. Reviewing chap 1-4.
5/23/2016	1.00	180.00	\$180.00	BERA review.
5/24/2016	2.00	180.00	\$360.00	meet and follow up internally on benthic evaluation
5/25/2016	3.00	180.00	\$540.00	BERA responding to staff questions and issues.
5/26/2016	4.00	180.00	\$720.00	BERA continue to respond to staff questions and issues.
5/27/2016	2.00	180.00	\$360.00	BERA text changes mammals.
5/30/2016	8.00	180.00	\$1,440.00	Review tables and text Section 7; make a list of changes to discuss with Matt. Start going over table Sections 8 and 9.
5/31/2016	4.00	180.00	\$720.00	BERA review with staff on each section and follow up.
Summary for Lisa Saban				
	39.50		\$7,110.00	

Matt Luxon

Date	Hours	Rate	Extended	Notes
5/2/2016	6.00	169.00	\$1,014.00	Writing fish section.
5/3/2016	6.50	169.00	\$1,098.50	Writing fish section.
5/4/2016	1.00	169.00	\$169.00	Writing fish section.
5/5/2016	6.00	169.00	\$1,014.00	Writing fish section.
5/6/2016	6.50	169.00	\$1,098.50	Writing fish section.
5/8/2016	6.50	169.00	\$1,098.50	Writing Section 7.
5/9/2016	5.50	169.00	\$929.50	Writing Section 7.
5/10/2016	6.50	169.00	\$1,098.50	Writing Sections 6 and 7.
5/12/2016	6.50	169.00	\$1,098.50	Writing Section 7.
5/16/2016	5.50	169.00	\$929.50	Writing fish section, conducting uncertainty analyses; providing comments on wildlife sections.
5/17/2016	6.50	169.00	\$1,098.50	Writing fish section, conducting uncertainty analyses; providing comments on wildlife sections.
5/18/2016	5.50	169.00	\$929.50	Writing fish section, conducting uncertainty analyses; providing comments on wildlife sections.
5/19/2016	6.00	169.00	\$1,014.00	Writing fish section.
5/20/2016	4.50	169.00	\$760.50	Finalizing internal draft of fish section.
5/23/2016	8.00	169.00	\$1,352.00	Finalizing internal draft of fish section.
5/24/2016	6.00	169.00	\$1,014.00	Writing Section 6, tissue section.
5/31/2016	4.00	169.00	\$676.00	Responding to internal comments on fish section.
Summary for Matt Luxon				
	97.00		\$16,393.00	

Mike Johns

Date	Hours	Rate	Extended	Notes
5/3/2016	3.00	192.00	\$576.00	Working on BERA text review

5/5/2016	3.00	192.00	\$576.00	BERA text review
5/6/2016	4.00	192.00	\$768.00	BERA text review
5/16/2016	5.00	192.00	\$960.00	Internal checkin and followup on BERA writing
5/25/2016	4.00	192.00	\$768.00	meet to discuss benthic section; continue to review section text
5/27/2016	4.00	192.00	\$768.00	continue to work on benthic text
5/31/2016	4.00	192.00	\$768.00	Meet on BERA status and discuss comments on draft report; finish review of benthic risk assessment and appendix
Summary for Mike Johns				
	27.00		\$5,184.00	

Nina Maas

Date	Hours	Rate	Extended	Notes
5/1/2016	3.00	124.00	\$372.00	identification of at risk scenarios and max values
5/2/2016	1.50	124.00	\$186.00	Uncertainty calculations added to mammal BERA, QC Appendix E
5/3/2016	3.50	124.00	\$434.00	Continue QC of Appendix E.1, TRV screening
5/4/2016	4.00	124.00	\$496.00	Continued EPA screening benchmark value compilation, entry of new studies
5/5/2016	6.50	124.00	\$806.00	Data entry of acceptable studies to revised wildlife TRV development
5/9/2016	7.00	124.00	\$868.00	Conducted QC of fish diet BERA calculations, Appendix E paper searches
5/10/2016	2.00	124.00	\$248.00	Conducted BERA mammal uncertainty calculation CQ
5/13/2016	5.00	124.00	\$620.00	Appendix E paper search
5/16/2016	3.00	124.00	\$372.00	Finished search for Appendix E papers, QC BERA section 7 tables
5/17/2016	5.50	124.00	\$682.00	Creation of bird dietary HQ tables for Section 9 BERA, LOAEL/NOAEL calculation Zn, Cd
5/18/2016	5.50	124.00	\$682.00	Continued creation of tables and corrections to NOAEL/LOAEL
5/19/2016	4.00	124.00	\$496.00	Addition of PAHs to tables, QC of 6-34, 6-35 of BERA section 6, Creation of bird COPEC table
5/20/2016	0.50	124.00	\$62.00	Finish Bird COPEC table
5/23/2016	4.75	124.00	\$589.00	Site wide uncertainty calculations for kingfisher, QC of Table 7-8 through 7-11, uncertainty table creation
5/24/2016	4.00	124.00	\$496.00	Continuing uncertainty tables, QC of mink and otter HQ tables for section 9, adjustments to bird HQ summary table
5/25/2016	7.50	124.00	\$930.00	Continuing adjustments and addition of new HQ bird tables, Adjustments to Section 9
5/26/2016	4.00	124.00	\$496.00	continuing HQ tables
5/27/2016	5.00	124.00	\$620.00	Continue formatting HQ tables and uncertainty table data entry
5/31/2016	1.50	124.00	\$186.00	QC of HQ summary tables
Summary for Nina Maas				
	77.75		\$9,641.00	

Rocky Wells

Date	Hours	Rate	Extended	Notes
5/17/2016	3.75	124.00	\$465.00	Worked on summary tables of EPC data
5/18/2016	4.75	124.00	\$589.00	Worked on summary tables of EPC data
5/19/2016	1.75	124.00	\$217.00	Worked on summary tables of EPC data
5/20/2016	0.50	124.00	\$62.00	Finished formatting EPC tables
5/27/2016	2.25	124.00	\$279.00	Reformatted tables for the BERA
5/31/2016	0.25	124.00	\$31.00	Responded to the review findings of data tables
Summary for Rocky Wells				
	13.25		\$1,643.00	

Shana Schorsch

Date	Hours	Rate	Extended	Notes
5/3/2016	0.50	124.00	\$62.00	Section 6 review
5/4/2016	4.50	124.00	\$558.00	Sections 6, 7 review
5/5/2016	1.25	124.00	\$155.00	Section 7 review
5/18/2016	1.25	124.00	\$155.00	EN entries Section 8
5/26/2016	4.75	124.00	\$589.00	Section 2 BERA review
5/27/2016	5.00	124.00	\$620.00	Section 2 BERA review, format tables for Section 8
5/31/2016	8.50	124.00	\$1,054.00	BERA Appendix D review, progress meeting
Summary for Shana Schorsch				
	25.75		\$3,193.00	

Shannon Katka

Date	Hours	Rate	Extended	Notes
5/3/2016	2.50	169.00	\$422.50	work on dietary prey portions and rationale - review of write-up and make edits/changes to rationale
5/4/2016	3.75	169.00	\$633.75	work on finalizing dietary prey portions and rationale
5/5/2016	0.50	169.00	\$84.50	meet with Lisa/Mike on BERA progress; review dietary prey portions with Jennifer
5/10/2016	0.50	169.00	\$84.50	summarize recommended options for revised background discussion and BERA wildlife TRV selection
5/11/2016	0.50	169.00	\$84.50	review table of CPG wildlife TRVs for BERA calculations
5/16/2016	1.75	169.00	\$295.75	internal meeting on BERA task issues and status; work with Jennifer on presentation of background comparisons for BERA sections
5/18/2016	4.00	169.00	\$676.00	review of Section 7 RTC responses and comments to ensure comments are addressed in revised BERA; work with Kim on treatment of ND values in dietary BERA calculations; start work on bird egg section

5/24/2016	4.00	169.00	\$676.00	work on calculations and TRVs for bird egg line of evidence in BERA
5/25/2016	5.50	169.00	\$929.50	continue work on calculations and TRVs for bird egg line of evidence in BERA; communication with others on consistency among sections and responses to EPA comments
5/26/2016	4.75	169.00	\$802.75	continue work on calculations and TRVs for bird egg line of evidence in BERA; work on revised write up of section 8.2
5/31/2016	4.50	169.00	\$760.50	work on revisions to Section 5 based on uncertainty evaluation of SLERA; work on Section 8.2 effects discussion (critique of EPA TRVs); internal meeting on BERA section status and issues to resolve
Summary for Shannon Katka				
	32.25		\$5,450.25	

Siobhan Sloan-Evans

Date	Hours	Rate	Extended	Notes
5/3/2016	1.00	124.00	\$124.00	Appendix D revisions (introduction/methods, COPEC TRV derivation, figures)
5/4/2016	3.25	124.00	\$403.00	Appendix D revisions (introduction/methods, COPEC TRV derivation, figures)
5/6/2016	4.00	124.00	\$496.00	Appendix D revisions (introduction/methods, COPEC TRV derivation, figures)
5/9/2016	4.00	124.00	\$496.00	Appendix D revisions (intro/methods, COPEC TRV derivations, figures)
5/10/2016	3.75	124.00	\$465.00	Appendix D revisions (intro/methods, COPEC TRV derivations, figures)
5/11/2016	3.00	124.00	\$372.00	Appendix D revisions (intro/methods, COPEC TRV derivations, figures)
5/12/2016	1.00	124.00	\$124.00	Appendix D revisions (intro/methods, COPEC TRV derivations, figures)
5/13/2016	1.50	124.00	\$186.00	Appendix D revisions (intro/methods, COPEC TRV derivations, figures)
5/17/2016	3.50	124.00	\$434.00	updating surface water assessment (section 7); Appendix D (surface water TRVs)
5/18/2016	2.00	124.00	\$248.00	updating surface water assessment (section 7); Appendix D (surface water TRVs)
5/19/2016	1.00	124.00	\$124.00	updating surface water assessment (section 7); Appendix D (surface water TRVs)
5/20/2016	3.00	124.00	\$372.00	updating surface water assessment (section 7); Appendix D (surface water TRVs)
5/23/2016	6.00	124.00	\$744.00	Updating exposure, risk characterization, and uncertainty sections of BERA section 7.3 (fish surface water assessment).
5/24/2016	6.00	124.00	\$744.00	Updating exposure, risk characterization, and uncertainty sections of BERA sections 6.2 (benthic surface water assessment) and 7.3 (fish surface water assessment).
5/25/2016	5.00	124.00	\$620.00	Updating exposure, risk characterization, and uncertainty sections of BERA sections 6.2 (benthic surface water assessment) and 7.3 (fish surface water assessment).

5/26/2016	4.00	124.00	\$496.00	Updating exposure, risk characterization, and uncertainty sections of Appendix O (amphibian assessment) and Appendix P (plant assessment), and BERA sections 6.2 (benthic surface water assessment) and 7.3 (fish surface water assessment).
5/27/2016	6.50	124.00	\$806.00	Updating exposure, risk characterization, and uncertainty sections of Appendix O (amphibian assessment) and Appendix P (plant assessment), and BERA sections 6.2 (benthic surface water assessment) and 7.3 (fish surface water assessment).
5/31/2016	5.75	124.00	\$713.00	Updating exposure, risk characterization, and uncertainty sections of BERA sections 6.2 (benthic surface water assessment) and 7.3 (fish surface water assessment).
Summary for Siobhan Sloan-Evans				
	64.25		\$7,967.00	

Suzanne Replinger

Date	Hours	Rate	Extended	Notes
5/23/2016	1.00	169.00	\$169.00	abundance calculation questions
5/31/2016	3.25	169.00	\$549.25	mammal sensitivity analysis
Summary for Suzanne Replinger				
	4.25		\$718.25	

Summary for Task 56 Revised BERA

872.25

\$128,323.75

Task 57 Response to EPA RI Comments

Brian Church

Date	Hours	Rate	Extended	Notes
5/18/2016	0.50	124.00	\$62.00	considering scope for FWM benthic assumptions recalculations, etc.
5/19/2016	2.75	124.00	\$341.00	Initial search for additional biomass sources to update FWM parameterization
5/20/2016	4.75	124.00	\$589.00	Literature search for additional biomass data
5/23/2016	5.75	124.00	\$713.00	responding to emails; developing interim comment responses; searching for biomass/abundance data to update analysis; delegating database development (from lit review) to Nina
5/24/2016	7.00	124.00	\$868.00	internal discussion on interim RTC; literature search for biomass; updating files/database with current data; revising figures; coordinating with Nina on new dataset development; responding to R2 comments in RTCs
5/25/2016	7.00	124.00	\$868.00	Updating benthic biomass data, Appendix E; responding to comments in RTC and preparing for interim submittal to Anchor
5/26/2016	0.50	124.00	\$62.00	Responding to RI comments

5/27/2016	1.50	124.00	\$186.00	Updating Appendix E tables; reviewing data, figures; touching base with Nina on new literature datasets
Summary for Brian Church		29.75	\$3,689.00	

Jenna Rheuben

Date	Hours	Rate	Extended	Notes
5/27/2016	2.75	124.00	\$341.00	Response to RI comments: comparison of wildlife values to freshwater and estuarine max sediment concentrations
Summary for Jenna Rheuben		2.75	\$341.00	

John Toll

Date	Hours	Rate	Extended	Notes
5/2/2016	5.00	180.00	\$900.00	produced a synoptic comment response document
5/9/2016	1.00	180.00	\$180.00	response to AQ re: EPA comments
5/18/2016	3.00	180.00	\$540.00	Worked on carp issue, comment response suggestions for dmi
Summary for John Toll		9.00	\$1,620.00	

Kim Goffman

Date	Hours	Rate	Extended	Notes
5/27/2016	0.50	143.00	\$71.50	Evaluate RI comments re: SLERA benthic criteria.
Summary for Kim Goffman		0.50	\$71.50	

Lisa Saban

Date	Hours	Rate	Extended	Notes
5/2/2016	2.00	180.00	\$360.00	input on bera RI cmts
5/3/2016	4.00	180.00	\$720.00	input on bera RI cmts; review modeling RI rsps
5/17/2016	0.50	180.00	\$90.00	follow up on carp ri comment.
5/19/2016	1.00	180.00	\$180.00	conference call on RI responses with TC
5/20/2016	1.00	180.00	\$180.00	work with John on additional sow for benthic biomass work
5/23/2016	1.00	180.00	\$180.00	follow up on RI responses with Raghav.
5/25/2016	2.00	180.00	\$360.00	additional follow up on responses to comments on the RI
5/31/2016	1.00	180.00	\$180.00	discuss RI comment with Rob and follow up on doing the work as part of the SLERA.

Summary for Lisa Saban

12.50

\$2,250.00

Mike Johns

Date	Hours	Rate	Extended	Notes
5/2/2016	3.00	192.00	\$576.00	Working with RI comments and attend call on comments
5/24/2016	3.00	192.00	\$576.00	meeting to discuss benthic biomass and followup work
5/26/2016	4.00	192.00	\$768.00	Review responses for RI prior to sending to Anchor
Summary for Mike Johns				
	10.00		\$1,920.00	

Nate Lewis

Date	Hours	Rate	Extended	Notes
5/2/2016	3.00	143.00	\$429.00	Evaluating schedule for potential model revisions
5/3/2016	3.00	143.00	\$429.00	Evaluating schedule for potential model revisions
5/17/2016	1.00	143.00	\$143.00	Reviewing EPA comment response tasks ready for immediate action
5/20/2016	0.50	143.00	\$71.50	Review of benthic biomass data for recalculation
5/24/2016	6.00	143.00	\$858.00	Updating response to RI modeling comments
Summary for Nate Lewis				
	13.50		\$1,930.50	

Nina Maas

Date	Hours	Rate	Extended	Notes
5/24/2016	4.00	124.00	\$496.00	helping update benthic biomass estimates
5/25/2016	1.00	124.00	\$124.00	continuing benthic biomass estimates
5/26/2016	3.00	124.00	\$372.00	Continue benthic biomass estimate assistance
5/27/2016	2.00	124.00	\$248.00	Continue benthic biomass estimates, data entry
5/31/2016	4.75	124.00	\$589.00	continue updates on benthic biomass
Summary for Nina Maas				
	14.75		\$1,829.00	

Suzanne Replinger

Date	Hours	Rate	Extended	Notes
5/24/2016	4.50	169.00	\$760.50	revisions to response to EPA comments for FWM
5/25/2016	1.50	169.00	\$253.50	revisions to response to EPA comments for FWM
Summary for Suzanne Replinger				
	6.00		\$1,014.00	

Summary for Task 57 Response to EPA RI Comments
98.75 \$14,665.00

Summary for Passaic RI
1,097.50 \$163,644.00

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Newark, N.J.

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To Hampton Suite

Amount \$ 35.00

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☐ Tips ☐ \$1.00 for luggage 24" size

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Seattle, WA 98119

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University of Washington
Invoice Receivables
PO Box 94224
Seattle, WA 98124-6524

1316703

Gunkel, G., Gunkel, G. (1981). Bioaccumulation of a herbicide (atrazine, s-triazine) in the whitefish (*Coregonus fera* J.): uptake and distribution of the residue in fish.. Archiv für Hydrobiologie. Supplement-Band 59 (1981): 252-287
Article from the UW Libraries.
Billing Notes: Standard -

\$20.0000 ← PASSAIC
Task 56

1316990

McKim, J. M., & Schmieder, P. K.. Bioaccumulation: Does it reflect toxicity. Bioaccumulation in aquatic systems. Contributions to the assessment, VCH Publishers, Weinheim, Germany, (1991): 161-188
Article from the UW Libraries.
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Task 56

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Richardson, M.E. ; Fox, M.R.S.. Dietary cadmium and enteropathy in the
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